



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878 and Regulation (EC) No 1272/2008

Organic Neroli Oil

Version: 1.0: first edition Date of creation: 15.04.2022 Date of printing: 15.04.2022

1. Identification of the substance/mixture and the company/undertaking

1.1. Product Identifiers

Trade name	:	Organic Neroli Oil
Substance name (INCI)	:	CITRUS AURANTIUM AMARA FLOWER OIL
Botanical name	:	Citrus aurantium L
CAS №	:	68916-04-1 / 72968-50-4
EO №	:	- / 277-143-2
Biological origin	:	Obtained from the fruit peels of ripe bitter oranges Citrus bigarida Risso = C.aurantium L.ssp amara Engl.) by pressing without heating.

1.2. Relevant identified significant uses of the substance or mixture and uses advised against

Use of substance/mixture	:	Used in perfumery and cosmetics by itself or as a formulation constituent, a part of composition.
Recommended restrictions on use	:	Avoid contact with eyes!
Reason not to recommend use	:	May cause serious irritation.

1.3. Details of the supplier of the safety data sheet

Manufacturer	:	ALTEYA ORGANICS LLC
Mailing address/Postal code	:	6167, village of Yagoda,1, Rozovarna St.
Country identifier/	:	
Postal code/city or town	:	Bulgaria
Telephone/Mobile/Fax	:	+359 700 15 502



E-mail of the competent person responsible for the Safety Data

Sheet : salesbg@alteya.com

National contact person : Kaloyan Stoev

1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov

Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)

e-mail: poison_centre@mail.orbitel.bg

<http://www.pirogov.net>

2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS				
Chapter	Subsection	Class of hazard	Class of hazard and category of hazard	Hazard statements
3.10	Inh.	Aspiration hazard	(Asp Tox 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Sensitization — skin	(Skin sens 1)	H317
4.1	Chronic	Hazardous to the aquatic life	Aquatic Chronic 2	H411

2.1.2. Additional information:

For the full text of hazard statements and EU hazard statements: see SECTION 16.

2.2. Label Elements

Labeling according Regulation (EC) No 1272/2008 [CLP]:

Hazard pictograms



GHS07 GHS08 GHS09

Signal word : Hazardous

Hazard statements : H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation

H317 May cause an allergic skin reaction

Hazard statements concerning environment : H411 Toxic to aquatic life with long lasting effects.

EUH 208 Contains Limonene, Linalool, Geraniol, Farnesol. May cause an allergic reaction.

Safety recommendations

Safety recommendations

P102 Keep out of reach of children

Safety recommendations



Prevention	:	P261 P264 P272 P273 P280 P284	Avoid breathing vapours Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection.
Safety recommendations	:		
- As a reaction	:	P305+P351+ P338 P301+P310 P331 P302 + P352 P333 + P313 P391	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Immediately call a doctor Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Collect spillage.
Safety recommendations	:		
If stored	:	P403+P235	Store in a well-ventilated place. Keep cool.
At disposal	:	P501	Dispose of contents / container at an approved disposal site in accordance with local and national regulations.


2.3. Other hazards

No other information available.

The substance meets vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

3. Composition/information on ingredients

3.1. Substance

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
CITRUS AURANTIUM AMARA FLOWER OIL	EINECS NO: - / 277-143-2 CAS NO: 68916-04-1 / 72968-50-4	100,0	 DANGER Asp. Tox. 1 H304 Skin Irrit. 2 – H315 Skin Sens. 1B H317 Aquatic Chronic 2 H411
GERANIOL	EINECS NO: 203-377-1	0,1 – 2,0	Skin Irrit. 2 – H315



	CAS NO: 106-24-1		Skin Sens. Cat.1, H317 Eye irritation, Cat. 2; H318
<i>α</i> -PINENE	EINECS NO: 232-077-3 CAS NO: 7785-26-4	0,1 – 3,51	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400
<i>b</i> -PINENE	EINECS NO: 204-872-5 CAS NO: 127-91-3	0,03 – 2,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400
FARNESOL	EINECS NO: 226-004-1 CAS NO: 4602-84-0	0,54 – 2,0	Skin Irrit. 2 – H315 Skin Sens. Cat.1, H317 Eye Irrit. 2A H319
SABINENE	EINECS NO: - CAS NO: 3387-41-5	0,005 – 0,6	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
BETA - MYRCENE	EINECS NO: 204-622-5 CAS NO: 123-35-3	0,2 – 3,1	Flam. Liq. 3 - H226 Asp. Tox. 1, H304 Skin Irrit. 2 – H315 Eye Irrit. 2 - H319
LIMONENE	EINECS NO: 227-813-5 CAS NO: 5989-27-5	5,76 – 8,0	Flam. Liq. 3 – H226 Skin Irrit. 2 – H315 Skin Sens. 1 – H317 Asp. Tox. 1 - H304 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
P-CYMENE	EINECS NO: 202-796-7 CAS NO: 99-87-6	Up to 1,12	Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
BETA-CARYOPHYLLENE/ (-)-trans-Caryophyllene	EINECS NO: 202-795-1 CAS NO: 99-86-5	Up to 0,1	Not classified as hazardous according to the EC Regulation 1272/2008/EC
Terpinene-4-ol	EINECS NO: 209-235-5 CAS NO: 562-74-3	Up to 0,2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
LINALOOL	EINECS NO: 201-134-4 CAS NO: 78-70-6	23,269 – 25,0	Eye Irrit. 2A (H319) Skin Sens. 1B (H317) Skin Irrit. 2 (H315)



2-Phenylethanol (PHENETHYL ALCOHOL)	EINECS NO: 200-456-2 CAS NO: 60-12-8	2,884	Acute Tox Oral 4; H302 Eye .irrit, Cat. 2A; H319
GERANYL ACETATE	EINECS NO: 203-341-5 CAS NO: 105-87-3	0,1 – 2,5	Skin Irrit. Cat.2, H315 Eye .irrit, Cat. 2A; H319 Aquatic Chronic 4, H412

4. First Aid Measures

4.1. Description of first aid measures



- General notes : In case of unwellness, in all cases of doubt, seek medical attention (Show this safety data sheet to the attending physician if possible). If possible, show this sheet, if not available, show the package or label.
- Following inhalation : Move the affected person to fresh air. In case of exposure to high concentrations: Get medical attention immediately.
- Following skin contact : Remove contaminated clothing immediately. Wash the skin thoroughly with soap and water for several minutes. In case of redness or irritation, call a doctor.
- Following eye contact : Immediately rinse with plenty of water, also under the eyelids for at least 15 minutes. Remove contact lenses, if present and to the extent possible. Continue rinsing. Consult an ophthalmologist immediately even if there are no immediate symptoms.
- Following ingestion : Rinse the mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately. If the victim vomits while lying on his back, place him in a lateral stable position.

4.2. Most important symptoms and effects, both acute and delayed

- Following skin contact : May cause an allergic skin reaction.
- Following eye contact : Causes serious eye damage
- Following ingestion : May lead to aspiration into the lungs, causing chemical pneumonia.



4.3. Indication of any immediate medical attention and special treatment needed

Treatment : In case of eye contact and ingestion, seek medical attention - recommended.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Air-mechanical foam, carbon dioxide, powder fire extinguishing composition. Halogenated hydrocarbons.

Unsuitable extinguishing media : Strong water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : The formation of toxic gases during a fire is possible as a result of high temperatures. Combustion products - carbon dioxide, carbon monoxide.

5.3. Advice for firefighters

Special protective equipment for firefighters : Isolate the fire area. Evacuate downwind. Do not attempt action without appropriate protective equipment Self-contained breathing apparatus and Full Protective Clothing. Closed containers with the product near the fire must be cooled with water. Do not allow runoff from contaminated fire extinguishing material to enter sewers, surface or ground water.

Additional information : In case of fire and/or explosion, do not breathe fumes.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Avoid contact with skin and eyes. Avoid inhalation of vapors.
There is a risk of slipping on the spilled product area. Thoroughly wash the spill site. Avoid contact with eyes. Use protective gloves, masks, protective clothing, shoes with grip.



Remove all sources of ignition. Avoid contact with skin or inhalation of fumes. Keep unnecessary personnel away. Ventilate enclosed spaces before entering them. Stop the leak if you can do so without risk. Follow the instructions in Sections 7,8 and 13.

For the firefighters:

Firefighters will be equipped with appropriate personal protective equipment (see Section 8).

High temperature may increase the pressure in the container - cool the container by spraying water.

6.1.2. For the persons responsible for emergencies

Personal precautions : Only qualified personnel, equipped with appropriate protective equipment, may interfere: Maintain good occupational and personal hygiene.

6.2. Environmental precautions

Environmental Precautions : Do not dispose directly into water bodies, drains and sewers, do not pollute the soil. In case of penetration into water or sewerage, inform the competent authorities.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment : Swab up with hygroscopic material (sand, kieselguhr, universal binder, sawdust). Dispose of contaminated material as waste according to section 13. Provide adequate ventilation.

6.3.2. For cleanup : Pump larger quantities. Collect in tightly closed containers and dispose of according to the instructions in Section 13. After removing the product, wash the contaminated area with plenty of water.

Small spills:

Wipe with an absorbent material (e.g. cloth, fleece). Clean the surface thoroughly until removing residual contamination.

6.4. Reference to other sections

See Section 7, 8 and 13.



7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Ventilate the storage warehouse. Avoid eating, drinking and smoking in areas where products are stored and handled. Work in accordance with the rules of occupational hygiene and safety techniques. Wear appropriate protective clothing. Always wash hands after work. Remove and launder contaminated clothing before reuse.
Fire-fighting measures	:	Take precautionary measures against static discharges. Keep away from heat. Keep away from sources of ignition. All the equipment used in handling the product must be grounded.
Measures to avoid transformation into aerosols and powder	:	Provide good ventilation or exhaust in the workplace.
Hygienic measures	:	Wash hands before breaks and at the end of the workday. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Stored in tightly closed original packaging (suitable – steel with a special coating, aluminum, glass) at a temperature of 15-25°C, away from pungent odours, heat sources and direct sunlight. Limit contact with air.
Incompatible materials	:	PVC
Packing materials	:	It is recommended that the product is stored in barrels or other containers with an internal varnish coating that does not react with the oil.
Storage class	:	No information
Additional information on storage conditions	:	Store away from strong bases and acids, and in the air it oxidizes and acquires a terpene smell.
Recommendations for fire	:	Keep away from sources of ignition and open flame.



and explosion protection

Recommendations for primary storage : Apply good occupational practices and occupational hygiene practices by ensuring proper ventilation in the workplace. Observe good personal hygiene and do not eat, drink or smoke.

It is recommended to observe the packaging and storage conditions according to ISO/TS 210:2015.

7.3. Specific end use(s)

Recommendations : Read the label before use.

Solutions specific to the industrial sector : No information available.

Specific use(s) : Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.

Additional information: Follow the regulation relative to the application:
• The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements).

8. Exposure controls/Personal protection equipment

8.1. Control parameters

*(R)-p-Mentha-1,8-diene - Index: NA, CAS: 5989-27-5, EC No: 227-813-5
TLV TWA - TLV STEL- VLE 8h- VLE short: None.*

*TERPINEN-4-OL - Index: NA, CAS: 562-74-3, EC No: 209-235-5
TLV TWA - TLV STEL- VLE 8h- VLE short: None.*

Pinene Limit value -8 hours 113 mg/m³ -

80-56-8

DL- α -pinene 80-56-8 DNEL 3,8 mg/m³ human, inhalation industrial worker chronic - systemic effects

DL- α -pinene 80-56-8 DNEL 0,542 mg/kg body weight/day human, dermal industrial worker chronic - systemic effects



β-pinene 18172-67-3 DNEL 5,69 mg/m³ human, inhalation industrial worker chronic - systemic effects

β-pinene 18172-67-3 DNEL 0,8 mg/kg body weight/day human, dermal industrial worker chronic - systemic effects

β-pinene 18172-67-3 DNEL 54 μg/cm² human, dermal industrial worker chronic - local effects

camphene 79-92-5 DNEL 110,2 mg/m³ human, inhalation industrial worker chronic - systemic effects

camphene 79-92-5 DNEL 110,2 mg/m³ human, inhalation industrial worker acute - systemic effects

camphene 79-92-5 DNEL 0,21 mg/kg body weight/day human, dermal industrial worker chronic - systemic effects

camphene 79-92-5 DNEL 1,25 mg/kg body weight/day human, dermal industrial worker acute - systemic effects

Other occupational exposure limits

Information on monitoring procedures

Relevant DNEL-/DMEL-/PNEC and other threshold levels

DERIVED NO EFFECT LEVEL (DNEL) OR DERIVED MINIMUM EFFECT LEVEL (DMEL):

LINALOOL(CAS:78-70-6)

Final Use: Workers.
Exposure Method: Dermal Contact.
Potential Health Effects: Short Term Systemic Effects.
DNEL: 5mg/kg body weight/day

Exposure Method: Dermal Contact.
Potential Health Effects: Short Term Local Effects.
DNEL: 15mg of substance/cm²

Exposure Method: Dermal Contact.
Potential Health Effects: Long Term Systemic Effects.
DNEL: 2.5mg/kg body weight/day

Exposure Method: Dermal Contact.
Potential Health Effects: Long Term Local Effects.
DNEL: 15mg of substance/cm²

Exposure Method: Inhalation.
Potential Health Effects: Short Term Systemic Effects.



DNEL: 16.5mg of substance/m³

Exposure Method: Inhalation.
Potential Health Effects: Long Term Systemic Effects.
DNEL: 2.8mg of substance/m³

Final Use: Consumers.
Exposure Method: Ingestion.
Potential Health Effects: Short Term Systemic Effects.
DNEL: 1.2mg/kg body weight/day

Exposure Method: Ingestion.
Potential Health Effects: Long Term Systemic Effects.
DNEL: 0.2mg/kg body weight/day

Exposure Method: Dermal Contact.
Potential Health Effects: Short Term Systemic Effects.
DNEL: 2.5mg/kg body weight/day

Exposure Method: Dermal Contact.
Potential Health Effects: Short Term Local Effects.
DNEL: 15mg of substance/cm²

Exposure Method: Dermal Contact.
Potential Health Effects: Long Term Systemic Effects.
DNEL: 1.25mg/kg body weight/day

Exposure Method: Dermal Contact.
Potential Health Effects: Long Term Local Effects.
DNEL: 15mg of substance/cm²

Exposure Method: Inhalation.
Potential Health Effects: Short Term Systemic Effects.
DNEL: 4.1mg of substance/m³

Exposure Method: Inhalation.
Potential Health Effects: Long Term Systemic Effects.
DNEL: 0.7mg of substance/m³

• **the relevant PNEC components of the mixture**

DL- α -pinene 80-56-8 PNEC 0,606 μ g/l freshwater transient (instant)

DL- α -pinene 80-56-8 PNEC 0,061 μ g/l seawater transient (instant)

DL- α -pinene 80-56-8 PNEC 0,2 mg/l treatment plant (STP) transient (instant)

DL- α -pinene 80-56-8 PNEC 157 μ g/kg sediments infreshwater transient (instant)

DL- α -pinene 80-56-8 PNEC 15,7 μ g/kg marine sediments transient (instant)



DL- α -pinene 80-56-8 PNEC 31,7 μ g/kg soil transient (instant)

β -pinene 18172-67-3 PNEC 1,004 μ g/l freshwater transient (instant)

β -pinene 18172-67-3 PNEC 0,1 μ g/l seawater transient (instant)

β -pinene 18172-67-3 PNEC 3,26 mg/l treatment plant (STP) transient (instant)

β -pinene 18172-67-3 PNEC 0,337 mg/kg sediments infreshwater transient (instant)

β -pinene 18172-67-3 PNEC 0,034 mg/kg marine sediments transient (instant)

β -pinene 18172-67-3 PNEC 0,067 mg/kg soil transient (instant)

camphene 79-92-5 PNEC 0,001 mg/l freshwater transient (instant)

camphene 79-92-5 PNEC 0 mg/l seawater transient (instant)

camphene 79-92-5 PNEC 10 mg/l treatment plant (STP) transient (instant)

camphene 79-92-5 PNEC 0,026 mg/kg sediments infreshwater transient (instant)

camphene 79-92-5 PNEC 0,003 mg/kg marine sediments transient (instant)

camphene 79-92-5 PNEC 0,021 mg/kg soil transient (instant)

α -Terpinene 99-86-5

DNEL 2.939 mg/m³ human, inhalatory worker (industry) chronic - systemic effects

DNEL 0.833 mg/kg bw/day

human, dermal worker (industry) chronic - systemic effects

PREDICTED NO EFFECT CONCENTRATION (PNEC):

LINALOOL(CAS:78-70-6)

Environmental Compartment: Soil.
PNEC: 0.327mg/kg

Environmental Compartment: Fresh Water.
PNEC: 0.2mg/l

Environmental Compartment: Sea Water.
PNEC: 0.02mg/l

Environmental Compartment: Intermittent Waste Water.
PNEC: 2mg/l

Environmental Compartment: Fresh Water Sediment.
PNEC: 2.22mg/kg

Environmental Compartment: Marine Sediment.
PNEC: 0.222mg/Kg

Environmental Compartment: Waste Water Treatmentplant.
PNEC: 10mg/l

8.2. Exposition controls



8.2.1. Appropriate engineering control

Measures related to the substance/
mixture to prevent exposure during
identified uses:

The description of appropriate exposure control
measures refers to the identified use(s) of the substance
or mixture specified in subsection 1.2.
General room ventilation or local exhaust ventilation is
usually required to comply with the exposure limit(s).



8.2.2. Personal protective equipment:

Use personal protective equipment that is clean and
properly maintained. Store personal protective
equipment in a clean area away from the work area.
Never eat, drink or smoke during use. Remove and
launder contaminated clothing before reuse.

8.2.2.1. Eyes and face protection:

Avoid contact with eyes.
Use eye protection (safety goggles in accordance with
the EN166 standard) designed to protect against liquid
splashes.

8.2.2.2. Skin protection

Hand protection

:

Wear appropriate safety gloves (chemically resistant in
accordance with standard EN374) in case of prolonged
or repeated skin contact. Recommended glove type:
nitrile rubber (butadiene-acrylonitrile copolymer rubber
(NBR) or PVA (polyvinyl alcohol).

Body protection:

Work clothing worn by staff must be washed regularly.
After contact with the product, all parts of the body that
have been contaminated should be washed.

8.2.2.3. Respiratory tract protection

:

In case of insufficient ventilation, use suitable means of
respiratory protection. When vapors / aerosols type A2
are generated.

8.2.2.4. Thermal hazards

:

No data available.

8.2.2.5. Other protection

:

Non-slip safety shoes may be worn in case of spills.



Training measures required to avoid exposure : Staff training as per internal schedule.

Organization measures to avoid Exposure : Staff training

Technical measures to avoid Exposure : Staff training

Environmental exposure controls

Basic guidelines : Do not wash-off into surface water or sewage system

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance/type : easily mobile liquid

Colour : Yellow to dark greenish yellow

Odour : Characteristic, exotic, citrusy, flowery of orange and bergamot with a colour indole undertone, fresh, lasting, terpene-like, slightly bitter green top note

Odor threshold : no current information

Solubility in 90% ethanol : 1 : 8 with clouding
P₉₅ 1:0,5 – 1,0

pH value : No information

Melting point/freezing point : < -100 °C at 1013.25 hPa /Echa dossier/

Boiling point or initial boiling point and boiling range : No information

Flammability : flammable

Explosivity : not classified as explosive

Lower and upper limit of explosivity : No information

Ignition temperature °C : 87,0



Boiling point	:	150°C +/- 0.5 °C /Echa dossier/
Auto-ignition temperature	:	244°C +/- 3°C at 96.4 to 97.5 kPa /Echa dossier/
Decomposition temperature	:	No information
Solubility (s)	:	in alcohol, oils, 1:1 in glacial acetic acid, Completely soluble in benzyl benzoate, diethyl phthalate, vegetable and mineral oils, slightly soluble in propylene glycol
Insoluble in	:	water, glycerin
Partition coefficient n-octanol/water (logarithmic value)	:	2.05 - 5.77 /Echa dossier/
Vapor pressure	:	61.3 Pa at 25°C /Echa dossier/
Particle characteristics	:	Not applicable

9.2. Other information

Refraction index at n ²⁰ /d	:	1.460 - 1.475
Relative density at d ²⁰	:	0.866 - 0.900
Optical rotation in °	:	0.0 до +15.0

No other information available

9.2.1. Information related to physical hazard classes

Note	:	No information
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10. Stability and Reactivity

10.1. Reactivity

Note	:	In case of long-term storage, exceeding the shelf life, and in case of access to air, polymerization processes occur.
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10.2. Chemical stability

Note	:	Chemically stable product under the specified conditions and
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duration of storage and use.

10.3. Possible hazardous reactions

Hazardous reactions : Formation of an explosive gas mixture with air is possible. Under unfavorable storage conditions (air intake, heat build-up) self-ignition of moistened solids (e.g. cloth, pulp, filter panels, binder) is possible.

10.4. Conditions to avoid

Conditions to avoid : Do not store in the immediate vicinity of heat, sparks, open flame, oxidizing agents.

Thermal decomposition : no data

10.5. Incompatible materials

Materials to avoid : Strong oxidizing agents.
Avoid flammable materials, PVC.

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous decomposition products, carbon oxides may be generated in case of fire.

11. Toxicological Information

11.1. Information on toxicological effects

Basic information: The information presented in this section doesn't belong to the product itself but results from the toxicity data of its components.

Acute toxicity

Based on the CLP classification rules, applicable to NCS, neroli oil is not classified for oral acute toxicity. ECHA dossier

*D-Limonene(Cas:5989-27-5)
Oral Route:Ld50= 4,400 - 5,10mg/Kg
Species :Rat*

*.beta.-Myrcene
Intraperitoneal TDLO (mouse): 25 mg/kg; Oral LD50 (rat): >11.39 gm/kg; Oral LD50 (mouse): 5060 mg/kg*

*Oral LD50
alpha-Pinene 3.700 mg/kg (rat)
Oral LD50*



beta-Pinene 4.700 mg/kg (rat)

Oral LD50

p-Cymene 1.400 mg/kg (rat)

Oral LD50

Terpinene-4-ol 1.300 mg/kg (rat)

LINALOOL(CAS:78-70-6)

ORAL ROUTE: LD50=2200MG/KG

SPECIES: MOUSE

OECDGUIDELINE 401(ACUTE ORAL TOXICITY)

D-LIMONENE(CAS:5989-27-5)

ORAL ROUTE: LD50= 4,400 - 5,10MG/KG

SPECIES : Rat

PHENYLETHYLALCOHOL (CAS: 60-12-8)

Oral: LD50 = 1610 mg/kg

Dermal: LD50 = 2500 mg/kg

GERANIOL (CAS: 106-24-1)

Oral: LD50 = 4200 mg/kg

GERANYL ACETATE 105-87-3

Oral LD50 (rat): 6330 mg/kg; Oral LD50 (mouse): 8 gm/kg

Corrosion/Skin irritation

D-LIMONENE(CAS:5989-27-5)

ORAL ROUTE: LD50= > 5000MG/KG

SPECIES : Rabbit

D-LIMONENE(CAS:5989-27-5)

ORAL ROUTE: LD50= > 5,600 - 6000MG/KG

SPECIES : Mouse

LINALOOL(CAS:78-70-6)

Dermal Route:Ld50=5610mg/Kg

Species: Rabbit, Oecdguideline 402(Acute Dermal Toxicity)

LINALOOL(CAS:78-70-6)

Irritation:Average Score =1.85

Effect Observed : Erythema Score, Species : Rabbit

Duration Of Exposure : 24hoecdguideline 404(Acute Dermal Irritation /Corrosion)



GERANIOL 106-24-1

LD50 Oral - Rat - 3.600 mg/kg

Notes: Behavioral: somnolence (generally suppressed activity). Behavioral: coma. Skin and skin appendages: other: hair.

GERANIOL 106-24-1

LD50 Dermal - Rabbit - > 5.000 mg/kg

Corosion/Skin irritation

Skin – Rabbit, Result: Irritates skin. - 24 h (OECD Test guidelines404)

GERANIOL 106-24-1

Очу - Rabbit

Result: Risk of serious eye damage. - 24 h

(Regulation 67/548/EEC, Addition V, B.5.)

GERANIOL 106-24-1

- Guinea pig possible sensitization through skin contact

Dermal LD50

alpha-Pinene > 5.000 mg/kg (rabbit)

Dermal LD50

Myrcene > 5.000 mg/kg (rabbit)

Dermal LD50

p-Cymene > 5.000 mg/kg

Notes : Causes skin irritation.

Serious damage/eye irritation

Result : Serious eye damage.
May have irreversible effects on the eyes, such as damage of eye tissues or serious physical vision deterioration that is not fully reversible by the end of the 21-day observation. Serious eye damage is characterized by corneal destruction, permanent corneal opacity and iritis.

Linalool(Cas:78-70-6)

Corneal Haze: Average Score =1

Species : Rabbit

Duration Of Exposure : 24hoecdguideline 405 (Acute Eye Irritation /Corrosion)

Iritis: Average Score =0.6



Species : Rabbit

Duration Of Exposure : 24hoecdguideline 405(Acute Eye Irritation /Corrosion)

Conjunctival Redness: Average Score =2.3

Species : Rabbit

Duration Of Exposure : 24hoecdguideline 405(Acute Eye Irritation /Corrosion)

Notes : May irritate eyes. A quick rinse and removal of the substance will avoid damage.

Respiratory or skin sensitization

Note : May cause an allergic skin reaction.

Ingestion

Note : no data

Mutagenicity of germ cells

Note : no data

Carcinogenicity

Note : CAS 5989-27-5: IARC група 3: The agent cannot be classified as to its carcinogenicity to humans.

Summary of the assessment of CMR properties

Note : no data

STOT (specific target organ toxicity) — single exposure

Note : no data

STOT (specific target organ toxicity) — repeated exposure

Note : no data

Aspiration hazard

Note : Breathing high vapor concentrations may cause



anesthetic effects. May be fatal if swallowed and enters the respiratory tract.

Information on possible routes of exposure

Note : Dermal

Symptoms related to physical, chemical and toxicological characteristics

Note : None known. Eye irritation upon exposure. Redness of the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Note : Exposure to vapours in excess of the specified occupational exposure limit may result in adverse health effects. Splashes in the eyes can cause irritation and reversible damage.

Interactions

Note : Toxicological characteristics are not comprehensively studied

Lack of specific data

Note : Toxicological characteristics are not comprehensively studied

Mixtures

Note : Toxicological characteristics are not comprehensively studied

Medical considerations

Note : Individuals with a rash are referred to a skin specialist for an allergic eczema testing.

Other information

Note : Toxicological characteristics are not comprehensively studied

11.2. Properties disturbing the functions of the endocrine system

Note : No information available



12. Ecological information

Note : No information available

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

GERANIOL 106-24-1

static test LC50 - Danio rerio (barbus) - approximately. 22 mg/l - 96 h
(OECD Test guidelines203)

LINALOOL(CAS:78-70-6)

Fish toxicity: duration of exposure :96h

Lc50=27.8mg/l

Species :oncorhynchus mykiss

Oecdguideline 203 (fish,acute toxicity test)

DL- α -pinene 80-56-8 LC50 0,303 mg/l fish 96 h

camphene 79-92-5 LC50 0,72 mg/l fish 96 h

α -Terpinene 99-86-5

LC50 3,150 μ g/l fish ECHA 96 h

*β -pinene 18172-67-3 LC50 0,68 mg/l Rainbow trout (*Oncorhynchus mykiss*) 96 h*

Toxic for Daphnia and other aquatic invertebrates

GERANIOL 106-24-1

Immobilization EC50 - Daphnia magna (Daphnia) - 10,8 mg/l - 48 h
(OECD Test guideline202)

LINALOOL(CAS:78-70-6)

Crustacean Toxicity Duration Of Exposure :48h

Ec50=59mg/L

Species :Daphnia Magna

Oecdguideline 202 (Daphnia Sp.Acute)

DL- α -pinene 80-56-8 EC50 0,475 mg/l aquatic invertebrates 48 h

Myrcene 123-35-3 EC50 1,47 mg/l aquatic invertebrates 48 h

camphene 79-92-5 EC50 0,72 mg/l aquatic invertebrates 48 h



α-Terpinene 99-86-5 EC50 1.7 mg/l aquatic invertebrates ECHA 48 h

Algae/aquatic plants

GERANIOL 106-24-1

Growth retardation EC50 - Desmodesmus subspicatus (green algae) - 13,1 mg/l - 72 h

LINALOOL(CAS:78-70-6)

Immobilisation Test

Algae Toxicity:

Duration Of Exposure :96h

Ecr50=88.3mg/L

Species :Desmodesmus Subspicatus Other Guideline

β-pinene 18172-67-3 ErC50 0,7 mg/l Pseudokirchnerie lla subcapitata 72 h

Myrcene 123-35-3 EC50 0,31 mg/l alga 72 h

Myrcene 123-35-3 ErC50 0,342 mg/l alga 72 h

camphene 79-92-5 ErC50 >1.000 mg/l alga 72 h

Bacteria

Note : no data

Chronic (long-term) toxicity:

Note : no data

Fish

Note : no data

Shellfish

Note : no data

Algae/aquatic plants

Note : no data

Other organisms



β-pinene 18172-67-3 EC50 326 mg/l microorganisms 3 h

camphene 79-92-5 EC50 >1.000 mg/l microorganisms 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation

Mixture components degradation

DL-α-pinene 80-56-8
oxygen depletion 68 % - 28 d

Myrcene 123-35-3
oxygen depletion 76 % - 28 d

Physical and photo-chemical elimination

Note : no data

Biochemical degradation

Note : Biodegradation is expected

12.3. Bioaccumulation

Product: no data available

Bioaccumulative capacity of the mixture components:

DL-α-pinene 80-56-8 Log KOW 4,83
DL-lemon 138-86-3 Log KOW 4,57
Myrcene 123-35-3 Log KOW 4,82 (pH value:~6,5, 30 °C)

Bioconcentration factor (BCF)

Notes : Not accumulated in the biological environment

12.4. Mobility in soil

Product:

Known or predicted distribution in environmental components

Note : no data

Surface tension



Note : no data

Adsorption/desorption

Note : no data

12.5. Results of PBT and vPvB assessment

This product doesn't contain substances considered persistent, bioaccumulative, nor toxic PBT.

Product:

Results from PBT and vPvB assessment

Notes : No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)

Value : No information available

Chemical oxygen demand (BOD)

Value : No information available

Additional ecological information/Mobility in soil

Notes : No information available

12.7. Additional information

Notes : Do not allow products to enter streams, drains or other waterways.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product Dispose of in accordance with local and national requirements.

Contaminated packaging material Dispose of as unused product.
Do not pollute the soil, water or the environment with waste



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containers! Waste products should be treated in accordance with current local, national and European legislation.

European
Catalogue waste
number

* **16 03 05**
organic waste containing hazardous substances

13.1.2. Information on waste
Treatment

Contact a licensed professional for disposal of this material.

13.1.3. Information on
discharge in sewer systems

Do not allow the product to enter streams, canals or other waterways.

14. Information on transportation

Transport icon

:



Class: 9 Miscellaneous dangerous substances and articles

14.1. UN proper shipping name

3082

14.2. UN proper shipping name



3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, O.V.O.

14.3. Transport hazard class(es)

Class 9, Pack,gr.III

14.4. Environmental hazards



14.5. Special precautions for user

Not applicable



14.6. Transport in bulk according to Annex II to MARPOL and IBC Code“

Road transport

ADR *Class 9, packing group III, UN 3082*

RID *Class 9, packing group III, UN 3082*

Tunnel code A, B, C, D

Waterway transport

ADN *Class 9, packing group III, UN 3082*

Maritime transport

IMDG *Class 9, packing group III, UN 3082*

Marine pollutant Yes

Air transport

IATA/CAO *Class 9, packing group III, UN 3082*

15. Regulatory information

Legislation specific for the substance or mixture / safety, health and environmental regulations

Other regulations / Laws This safety data sheet is consistent with the Law on Protection from Harmful Effects of chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling

EU legislative acts : accordingly, EU regulations.

Other legal acts, restrictions and prohibitive standards No information available

15.1. Chemical Safety Assessment

No information.



The supplier had not prepared a chemical safety assessment for this substance/mixture.

16. Other information

Shelf life 2 years from the date of manufacture.

Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]

Abbreviations and acronyms:

Abbr.	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
Asp Tox 1	Aspiration hazard
Aquatic Chronic 2	dangerous for the aquatic environment - chronic danger
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
CMR	Carcinogenic, mutagenic and toxic for reproduction (substance)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals", developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant")
NLP	A substance that no longer has the properties of a polymer
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration



REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
Corrosion/irritation 2	Skin irritation
Skin Sens.	skin sensitization
vPvB	very Persistent and very Bioaccumulative
EO № Списъка на EC	(EINECS, ELINCS and NLP-list) is the source for the seven-digit EC number, an identifier for substances in commerce network within the EU (European Union)
Индекс №	the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
ЛОС	Volatile Organic Compounds

Main references and sources of data in the literature

- Regulation (EC) No 1907/2006 (REACH), as amended by (EU) 2020/878
- Regulation (EC) No 1272/2008 (CLP, EC GHS)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	Text
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic organisms with a long-lasting effect
EUH 208	Contains Limonene, Linalool, Geraniol, Farnesol. May produce an allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep out of reach of children
P261	Avoid breathing vapours
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Use protective gloves/protective clothing/protective goggles /protective face mask.
P284	[In case of insufficient ventilation] Wear respiratory protection.
P305+P351+P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301+P310	IF SWALLOWED: Immediately call a doctor/physician.
P331	Do NOT induce vomiting
P302 + P352	IF ON SKIN: Wash thoroughly with water/...
P333 + P313	In case of skin irritation or rash: seek medical advice/help
P391	Collect spillage
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents / container at an approved disposal site in accordance with local and national regulations



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Other information :

In accordance with general product specification:
The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.
To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.
The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.
It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any loss, injury, damage or expenses resulting from the improper use of this product.
The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.
The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety Data Sheet correspond to the fair presentation of our experience at the time of printing.
The information should give you basic guidelines for safe handling of this product, specified in the Safety Data Sheet, regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.
If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Data Sheet cannot be assigned to the new material unless expressly stated otherwise.

The information provided is intended only as a guide to safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification.

Due to the many factors beyond our control in the use of this product, we cannot accept responsibility for accidents, mishaps, loss or damage caused by its use.

END!



LIST OF 26 ALLERGEN SUBSTANCES / ANNEX III TO REGULATION (EC) NO 1223/2009

Customer: „ALTEYA ORGANICS” LLC – 1. “Rozovarna” St., Yagoda village, 6167, Stara Zagora
salesbg@alteya.com, http://alteya.com, +359 700 15 502

Name of product: Organic Neroli Oil / CITRUS AURANTIUM AMARA FLOWER OIL

	NAME OF SUBSTANCES	REMARK	CAS №	EINECS №	NATURAL %	SYNTHETIC %	TOTAL %
1	AMYL CINNAMAL	H317; H411	122-40-7	204-541-5	-	-	-
2	AMYL CINNAMYL ALCOHOL	H315; H317	101-85-9	202-982-8	-	-	-
3	ANISE ALCOHOL	H302; H318 H317	105-13-5	203-273-6	-	-	-
4	BENZYL ALCOHOL	H332; H302	100-51-6	202-859-9	-	-	-
5	BENZYL BENZOATE	H302	120-51-4	204-402-9	-	-	-
6	BENZYL CINNAMATE	H317; H411	103-41-3	203-109-3	-	-	-
7	BENZYL SALICYLATE	H317; H411	118-58-1	204-262-9	-	-	-
8	CINNAMAL	H312; H315 H317	104-55-2	203-213-9	-	-	-
9	CINNAMYL ALCOHOL	H317	104-54-1	203-212-3	-	-	-
10	CITRAL	H315; H317	5392-40-5	226-394-6	-	-	-
11	CITRONELLOL	H315; H317 H411	106-22-9	203-375-0	-	-	-
12	COUMARIN	H302; H317	91-64-5	202-086-7	-	-	-
13	EUGENOL	H319; H317	97-53-0	202-589-1	-	-	-
14	FARNESOL	H315; H319	4602-84-0	225-004-1	0,54 – 2,0	-	0,54 – 2,0
15	ALPHA-ISOMETHYL IONONE	H412	127-51-5	204-846-3	-	-	-
16	GERANIOL	H315; H317	106-24-1	203-377-1	0,1 – 2,0	-	0,1 – 2,0
17	HEXYL CINNAMAL	H317;	101-86-0	202-983-3	-	-	-
18	HYDROXYCITRONELLAL	H319; H317	107-75-5	203-518-7	-	-	-
19	ISOEUGENOL	H312; H302 H319; H315 H317	97-54-1	202-590-7	-	-	-
20	BUTYLPHENYL METHYLPROPIONAL (LILIAL)	H317	80-54-6	201-289-8	-	-	-
21	LIMONENE	H226; H315 H317; H411	5989-27-5	227-813-5	5,7601 – 8,0	-	5,7601 – 8,0
22	LINALOOL	H315	78-70-6	201-134-4	23,2694 – 25,0	-	23,2694 – 25,0
23	HYDROXYISOHEXYL 3- CYCLOHEXENE CARBOXALDEHYDE (LYRAL)	H317	31906-04-4	250-863-4	-	-	-
24	METHYL 2-OCTYNOATE	H302; H317	111-12-6	203-836-6	-	-	-
25	EVERNIA FURFURACEA LICHEN EXTRACT (TREETMOSS EXTRACT)	H317	90028-67-4	289-860-8	-	-	-
26	EVERNIA PRUNASTRI (OAK MOSS)	H317	90028-68-5	289-861-3	-	-	-

According to Regulation EO 1223/2009 is hereby amended as follows:

The presence of the substance must be indicated in the list of ingredients referred to in Article 6(1)(g) when its concentration exceeds:— **0,001 %** in “leave-on” products, (and)— **0,01 %** in “rinse-off” products